MAIN BUILDING HEAT PUMP SCHEDULE

ITEM	MANUFACTURER	MODEL NO.	LOCATION	SYSTEM SERVED	COOLING: SOURCE COOLING CAPACITY (KW)	ENT LOAD TEMP (°C)	LVG LOAD TEMP (°C)	LOAD FLOW RATE (LPS)	LOAD PRESSURE DROP (kPa)	ENT SOURCE TEMP (°C)	LVG SOURCE TEMP (°C)	SOURCE FLOW RATE (LPS)	SOURCE PRESSURE DROP (kPa)	HEATING: SOURCE HEATING CAPACITY (KW)	ENT LOAD TEMP (°C)	LVG LOAD TEMP (°C)	LOAD FLOW RATE (LPS)	LOAD PRESSURE DROP (kPa)	ENT SOURCE TEMP (°C)	LVG SOURCE TEMP (°CF)	SOURCE FLOW RATE (LPS)	SOURCE PRESSURE DROP (kPa)	ELECTRICAL DATA: VOLT	PH	HZ	MCA	MHACR BREAKER	COMPRESSOR	MIN. EER/COP	PROP. GLYCOL (SOURCE SIDE) %	PROP. GLYCOL (LOAD SIDE) %	OPERATING WEIGHT (KG)	NOTES
HP-M1	WATER FURNACE	NXW600R	MAIN. BLDG/MECH	SPACE HEATING/COOLING	192.2	11.7	6.4	8.8	26.0	18.3	24.2	9.5	39.6	148.0	45.0	49.0	8.8	21.8	1.7	-0.9	9.5	41.6	460	3	60	96.5	125.0	SCROLL (2)	18.8/2.9	15	0	839	ALL
HP-M2	WATER FURNACE	NXW600R	MAIN. BLDG/MECH	SPACE HEATING/COOLING	192.2	11.7	6.4	8.8	26.0	18.3	24.2	9.5	39.6	148.0	45.0	49.0	8.8	21.8	1.7	-0.9	9.5	41.6	460	3	60	96.5	125.0	SCROLL (2)	18.8/2.9	15.0	0.0	839.0	ALL
HP-M3	WATER FURNACE	NXW600R	MAIN. BLDG/MECH	SPACE HEATING/COOLING	192.2	11.7	6.4	8.8	26.0	18.3	24.2	9.5	39.6	148.0	45.0	49.0	8.8	21.8	1.7	-0.9	9.5	41.6	460	3	60	96.5	125.0	SCROLL (2)	18.8/2.10	15.0	0.0	839.0	ALL
HP-M4	WATER FURNACE	NXW600R	MAIN. BLDG/MECH	SPACE HEATING/COOLING	192.2	11.7	6.4	8.8	26.0	18.3	24.2	9.5	39.6	148.0	45.0	49.0	8.8	21.8	1.7	-0.9	9.5	41.6	460	3	60	96.5	125.0	SCROLL (2)	18.8/2.11	15.0	0.0	839.0	ALL
HP-M5	WATER FURNACE	NXW600R	MAIN. BLDG/MECH	SPACE HEATING/COOLING	192.2	11.7	6.4	8.8	26.0	18.3	24.2	9.5	39.6	148.0	45.0	49.0	8.8	21.8	1.7	-0.9	9.5	41.6	460	3	60	96.5	125.0	SCROLL (2)	18.8/2.12	15.0	0.0	839.0	ALL
HRC-M1	WATER FURNACE	NXW180R	HEAT RECOVERY/COOLING ONLY	LAN/IT/SECURITY COOLING	66.9	11.7	6.2	2.9	18.0	18.3	24.9	2.9	19.2	39.6	45.6	49.9	2.9	13.9	1.7	-1.4	2.9	21.8	460	3	60	27.5	35.0	SCROLL (2)	21.5/3.1	15.0	0.0	383.0	ALL
HRC-M2	WATER FURNACE	NXW180R	HEAT RECOVERY/COOLING ONLY	LAN/IT/SECURITY COOLING	66.9	11.7	6.2	2.9	18.0	18.3	24.9	2.9	19.2	39.6	45.6	49.9	2.9	13.9	1.7	-1.4	2.9	21.8	460	3	60	27.5	35.0	SCROLL (2)	21.5/3.2	15.0	0.0	383.0	ALL

NOTES:
1. SOURCE SIDE TEMPERATURES TO BE COORDINATED WITH WELL FIELD DESIGNER
2. R410A
3. PROVIDE MASTER CONTROLLER
4. PROVIDE SPRING ISOLATORS
5. PROVIDE SCROLL COMPRESSORS

MAIN BUILDING PUMP SCHEDULE

ITEM	MANUFACTURER	MODEL	TYPE	LOCATION	SERVICE	FLOW RATE L/S	HEAD (M)	RPM	PROP. GLYCOL %	MOTOR KW	MOTOR HP	VOLT	PH	HZ	NOTES
PCWP-M1	BELL & GOSSETT	e-80 4X4X7B	INLINE	MAIN BUILDING	PRIMARY CONDENSER WATER	9.5	3	1150	15	0.56	0.75	460	3	60	RUN
PCWP-M2	BELL & GOSSETT	e-80 4X4X7B	INLINE	MAIN BUILDING	PRIMARY CONDENSER WATER	9.5	3	1150	15	0.56	0.75	460	3	60	RUN
PCWP-M3	BELL & GOSSETT	e-80 4X4X7B	INLINE	MAIN BUILDING	PRIMARY CONDENSER WATER	9.5	3	1150	15	0.56	0.75	460	3	60	RUN
PCWP-M4	BELL & GOSSETT	e-80 4X4X7B	INLINE	MAIN BUILDING	PRIMARY CONDENSER WATER	9.5	3	1150	15	0.56	0.75	460	3	60	RUN
PCWP-M5	BELL & GOSSETT	e-80 4X4X7B	INLINE	MAIN BUILDING	PRIMARY CONDENSER WATER	9.5	3	1150	15	0.56	0.75	460	3	60	STANDBY
PCWP-M6	BELL & GOSSETT	e-90-2AAC	INLINE	MAIN BUILDING	PRIMARY CONDENSER WATER	2.9	3	1725	15	0.19	0.25	460	3	60	RUN
PCWP-M7	BELL & GOSSETT	e-90-2AAC	INLINE	MAIN BUILDING	PRIMARY CONDENSER WATER	2.9	3	1725	15	0.19	0.25	460	3	60	STANDBY
CWP-M1	BELL & GOSSETT	e-1510-4BD	END-SUCTION	MAIN BUILDING	CONDENSER WATER	42.5	15	1770	15	11.19	15	460	3	60	RUN, VFD
CWP-M2	BELL & GOSSETT	e-1510-4BD	END-SUCTION	MAIN BUILDING	CONDENSER WATER	42.5	15	1770	15	11.19	15	460	3	60	STANDBY, VFD
PCHWP-M1	BELL & GOSSETT	E80 3X3X7C	INLINE	MAIN BUILDING	PRIMARY CHILLED WATER	8.8	3	1150		0.56	0.75	460	3	60	RUN
PCHWP-M2	BELL & GOSSETT	E80 3X3X7C	INLINE	MAIN BUILDING	PRIMARY CHILLED WATER	8.8	3	1150		0.56	0.75	460	3	60	RUN
PCHWP-M3	BELL & GOSSETT	E80 3X3X7C	INLINE	MAIN BUILDING	PRIMARY CHILLED WATER	8.8	3	1150		0.56	0.75	460	3	60	RUN
PCHWP-M4	BELL & GOSSETT	E80 3X3X7C	INLINE	MAIN BUILDING	PRIMARY CHILLED	8.8	3	1150		0.56	0.75	460	3	60	RUN
PCHWP-M5	BELL & GOSSETT	E80 3X3X7C	INLINE	MAIN BUILDING	PRIMARY CHILLED	8.8	3	1150		0.56	0.75	460	3	60	RUN
PCHWP-M6	BELL & GOSSETT	e-90-2AAC	INLINE	MAIN BUILDING	PRIMARY CHILLED WATER	2.9	3	1725		0.19	0.25	460	3	60	RUN
PCHWP-M7	BELL & GOSSETT	e-90-2AAC	INLINE	MAIN BUILDING	PRIMARY CHILLED WATER	2.9	3	1725		0.19	0.25	460	3	60	STANDBY
CHWP-M1	BELL & GOSSETT	e-1510-3EB	END-SUCTION	MAIN BUILDING	SECONDARY CHILLED WATER	26	30	1750		14.91	20	460	3	60	RUN, VFD
CHWP-M2	BELL & GOSSETT	e-1510-3EB	END-SUCTION	MAIN BUILDING	SECONDARY CHILLED WATER	26	30	1750		14.91	20	460	3	60	STANDBY, VFD
HHWP-M1	BELL & GOSSETT	e-1510-3EB	END-SUCTION	MAIN BUILDING	SECONDARY HOT WATER	28	30	1750		14.91	20	460	3	60	RUN, VFD
HHWP-M2	BELL & GOSSETT	e-1510-3EB	END-SUCTION	MAIN BUILDING	SECONDARY HOT WATER	28	30	1750		14.91	20	460	3	60	STANDBY, VFD
P-M1	BELL & GOSSETT	PL-36	INLINE	MAIN BUILDING	FREEZE PROTECTION	1.5	1.0	3300		0.13	0.17	115	1	60	RUN
P-M2	BELL & GOSSETT	PL-30	INLINE	MAIN BUILDING	FREEZE PROTECTION	1.1	1.3	3300		0.06	0.08	115	1	60	RUN
P-M3	BELL & GOSSETT	PL-36	INLINE	MAIN BUILDING	FREEZE PROTECTION	1.1	1.0	3300		0.13	0.17	115	1	60	RUN
P-M4	BELL & GOSSETT	PL-130	INLINE	MAIN BUILDING	FREEZE PROTECTION	3	0.4	3300		0.30	0.4	115	1	60	RUN

NOTE:
1. FOR ALL POLYPHASE PUMPS NOT ON VFD, PROVIDE COMBINATION STARTER/DISCONNECT TO MATCH
2. FINAL PUMP IMPELLER SIZE TO OPERATE AT REQUIRED FLOW AT MIN. 80% OF 60HZ SELECTION.

MAIN BUILDING COMPUTER ROOM AIR CONDITIONING UNIT

ITEM	AREA SERVED	MODEL	FAN DATA: FLOW RATE LPS	EXT SP PA	CHILLED WATER COOLING COIL DATA: COOLING LOAD TOTAL KW	SENSIBLE SENSIBLE KW	AIR SIDE: EAT DB °C	EAT WB °C	LAT DB °C	LAT WB °C	WATER SIDE: EWT °C	LWT °C	LPS	UNIT DATA: FLA	MCA	ELECTRICAL: MFS	V/PH/HZ	HUMIDIFIER: MOISTURE FLOW KG/HR	NOTES
CAC-M1	LAN DATA ROOM	OHS-072-C	1415	75.0	21.3	20.0	23.9	16.1	11.7	10.9	7.1	15	0.7	9.3	11.6	15	460/3/60	1.8 - 6.8	DUTY
CAC-M2	LAN DATA ROOM	OHS-072-C	1415	75.0	21.3	20.0	23.9	16.1	11.7	10.9	7.1	15	0.7	9.3	11.6	15	460/3/60	1.8 - 6.8	STANDBY
CAC-M3	HOMELAND SEC DATA	OHS-018-C	354	75.0	5.9	5.3	23.9	16.1	11.2	10.6	7.1	12.2	0.7	5.3	6.6	15	460/3/60	0.9 - 2.3	DUTY
CAC-M4	HOMELAND SEC DATA	OHS-018-C	354	75.0	5.9	5.3	23.9	16.1	11.2	10.6	7.1	12.2	0.7	5.3	6.6	15	460/3/60	0.9 - 2.3	STANDBY
CAC-M5	HOMELAND SEC DATA	OHS-048-C	1038	75.0	13.4	12.6	23.9	16.1	13.1	11.9	7.1	13.2	0.7	9.3	12.0	15	460/3/60	1.8 - 4.5	DUTY

NOTES:
1. PROVIDE FACTORY CONDENSATE PUMP FOR AUTOMATIC REMOVAL OF CONDENSATE AND HUMIDIFIER FLUSH WATER.
2. THE CONDENSATE PUMP SHALL BE SPECIFICALLY DESIGNED TO OPERATE WITH THE HIGHER CONDENSATE TEMPERATURES CAUSED BY THE FLUSH AND DRAIN CYCLES OF THE ELECTRODE CANISTER HUMIDIFIERS.
3. IN ADDITION TO THE STANDARD CONDENSATE PAN OVERFLOW SAFETY FLOAT(S), THE CONDENSATE PUMP SHALL INCLUDE AN INTERNAL OVERFLOW SAFETY FLOAT SWITCH WIRED TO THE A/C'S REMOTE STOP/START TERMINALS WHICH SHALL OPEN THE A/C'S CONTROL CIRCUIT, THEREBY SHUTTING THE A/C DOWN IN THE EVENT OF A CONDENSATE OVERFLOW.
4. DISCHARGE FROM CONDENSATE PUMP SHALL RUN TO THE NEAREST JANITOR'S CLOSET OR MER.

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PLOT BY: Matthew Hochberger
PLOT TIME: 2/27/2017 11:26 AM
MOD. BY: Matthew.hochberger
MOD. TIME: 2/27/2017 11:22 AM
DWG NAME: J:\n-y\240000\247863-00\4 Internal Project Data\4-03 Drawings\4-03-20 Mech\sheets Phase 2\M-MJ-621.dwg

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GEOTECHNICAL ENGINEER:
TBD

FINAL CONSTRUCTION DOCUMENTS

CERTIFICATIONS

KEY PLAN

REVISION NOTES

MARK	DATE	DESCRIPTION
A	05/25/2016	ASR#14 - FIRST SUBMISSION
B	07/13/2016	ASR#14 - SECOND SUBMISSION
	09/23/2016	ASR#14 - THIRD SUBMISSION
	11/10/2016	FINAL CONSTRUCTION DOCUMENTS
3	01/06/2017	AMENDMENT 3 - OPTIONS
8	02/27/2017	AMENDMENT 8

GRAPHIC SCALE: NTS

CONTRACTORS	A/E CON. NO.	GS-02P-09-DTC-0005
	A/E TASK NO.	
	CONS. CONTR.	
	CONS. WORK	
	PRIME A/E	MORPHOSIS ARCHITECTS
	SUB A/E	
	CONSTR. CON.	
BUILDING	NAME	ALEXANDRIA BAY LAND PORT OF ENTRY
	STREET	46735 INTERSTATE 81
	CITY/ST./ZIP	ALEXANDRIA BAY, NY, 13607
	BUILDING NO.	NY0379AB
	OTHER BUILDING NOs.	
	FACILITY CODE	AB
PROJECT	PROJECT TITLE	NEW U.S. LAND PORT OF ENTRY ALEXANDRIA BAY, NY
	PROJECT DESCRIPTION	FACILITY-WIDE MODERNIZATION & EXPANSION
	PROJECT NO.	NNY 00001 / NNY 00207
	GSA PM	ANDREW WOODRING
	SUBMISSION	FINAL CONSTRUCTION DOCUMENTS
	SUB. DATE	09/23/2016
DRAWING	DRAWING TITLE	MECHANICAL SCHEDULES
	FILE NAME	M-MJ-621
	FLOOR NO.	
	DRAWN BY	RZ DATE DRAFTED:
	CHECKED BY	AM SHEET SIZE: 30 X 42
	DRAWING NO.	M MJ 6 21 (BUILDING DISCIPLINE TYPE SEQUENCE)
		SHEET OF